Fig. 1 1/22

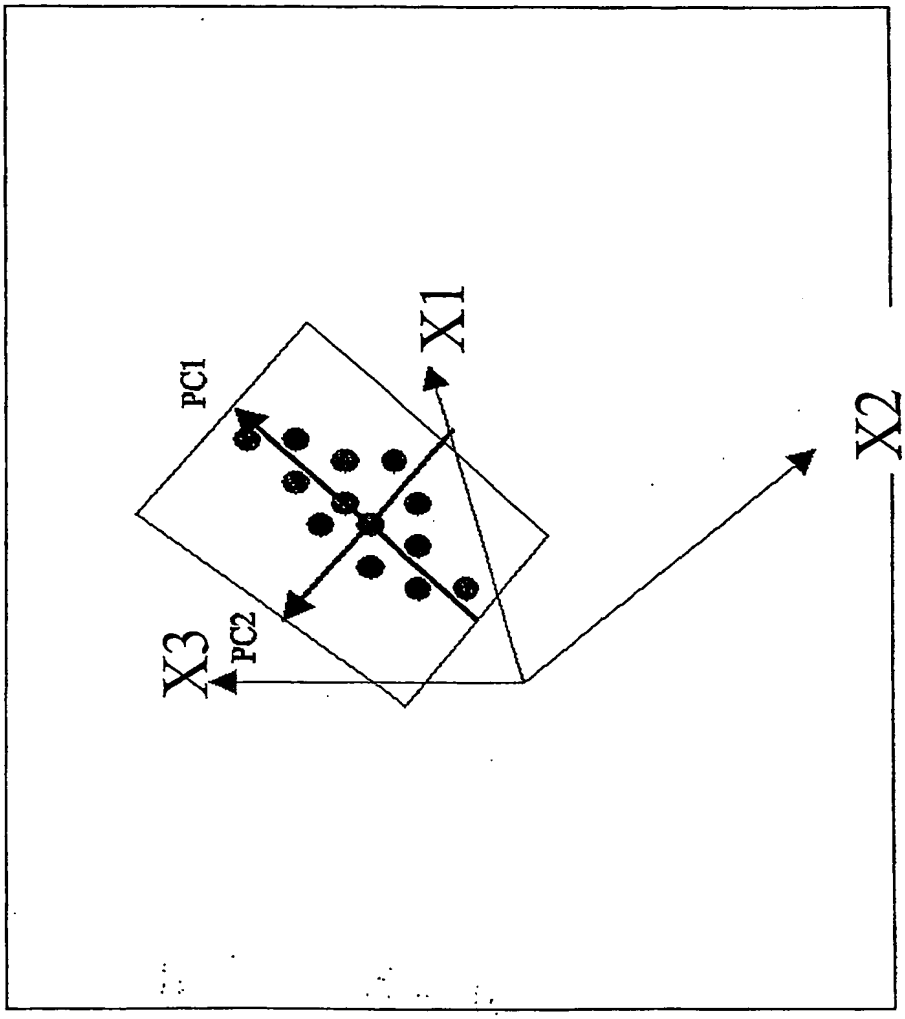


Fig. 2 2/22

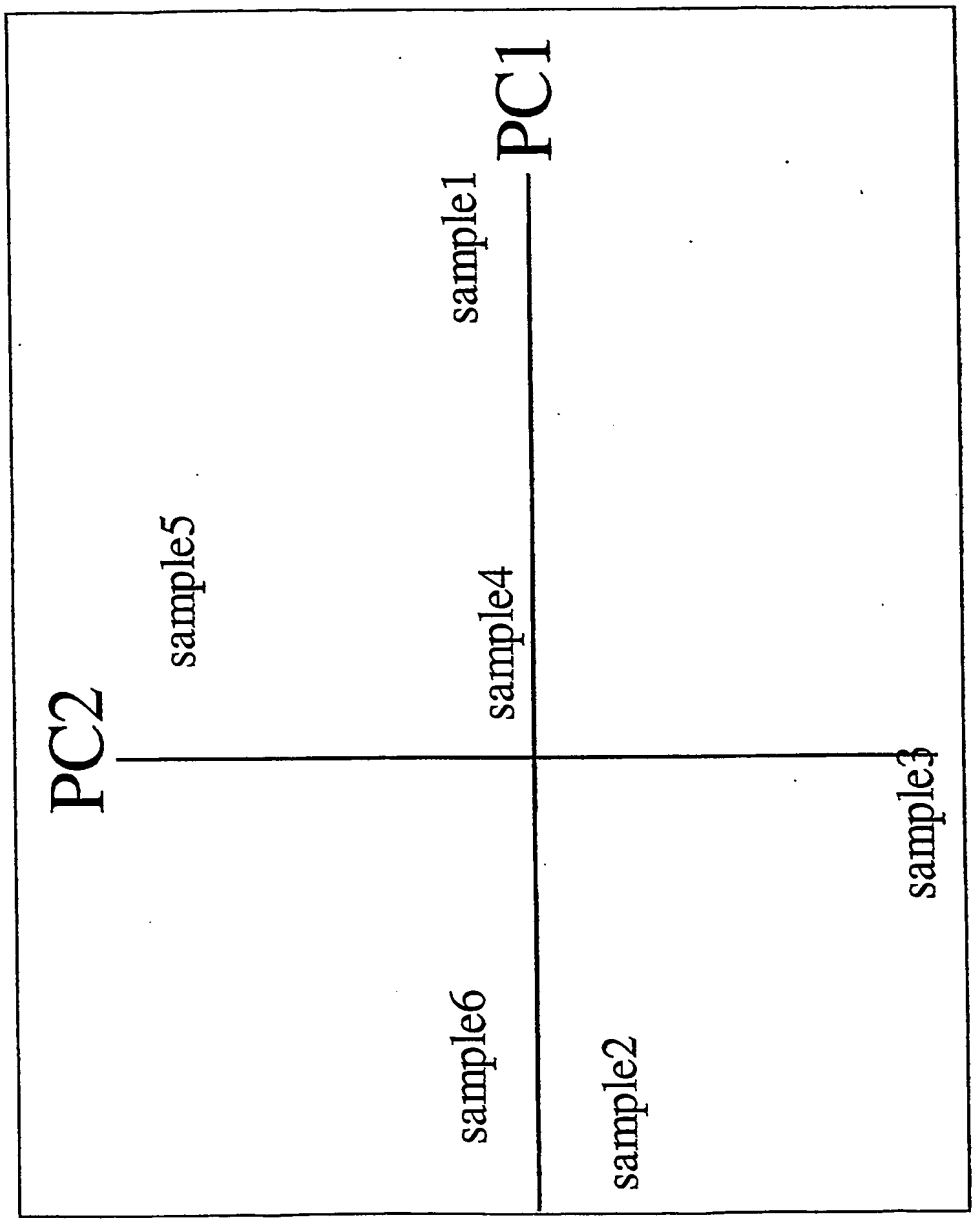


Fig. 3 3/22

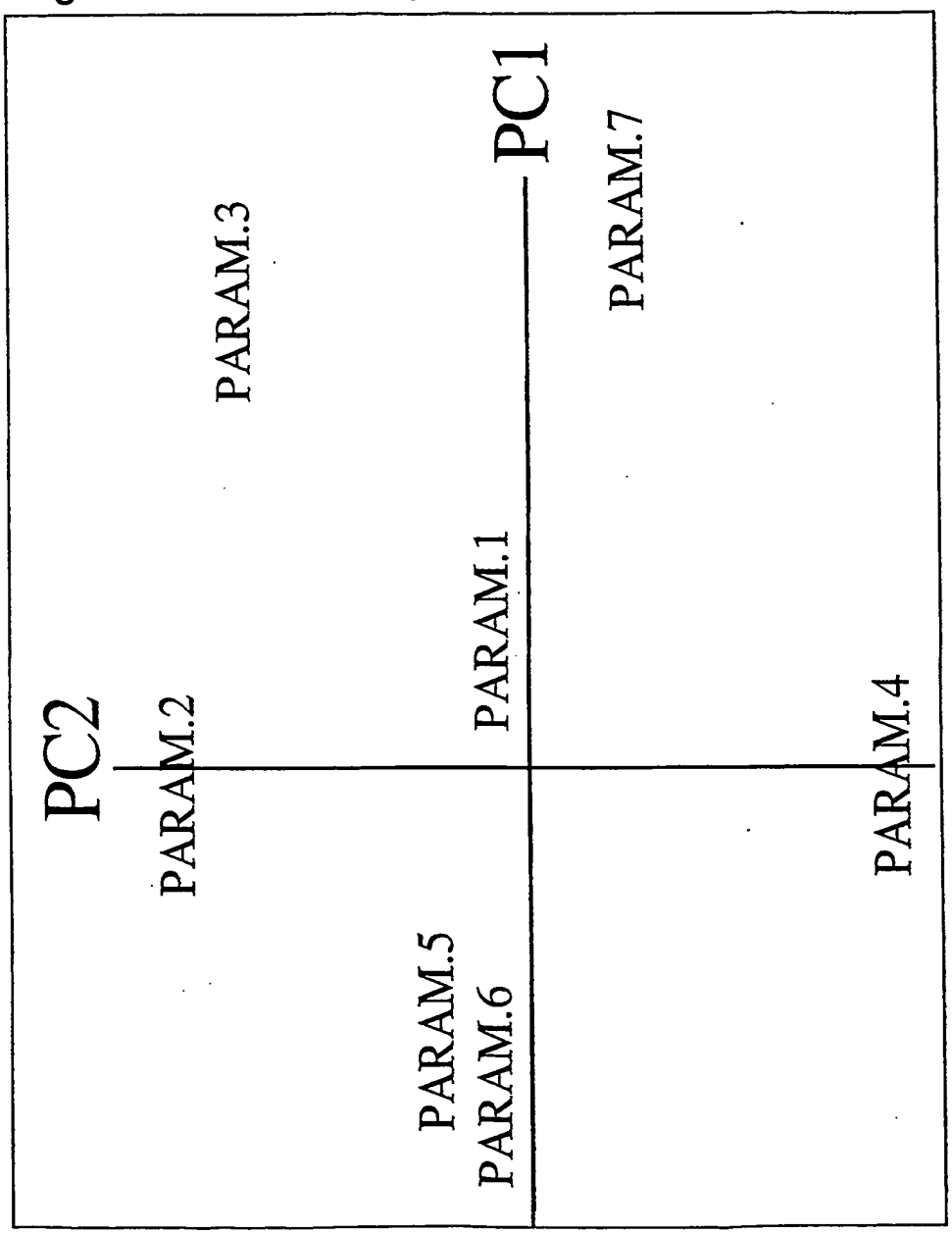


Fig. 4

Fig. 4 4/22

```
COMPLEMTARY WT AND MUT OLIGOS

W1      5'-CTAAGAACCAGAAGATCAGATGGAAAAATGAAGTCCGGATTCATTCTGGGTCTTTCCAGAGCCAGGTCGA
W2           5'-ACCAGAAGATCAGATGGAAAAATGAAGTCCGGATTCATTCTGGGTCTTTC
W3 5'-GCTAACACTAAGAACCAGAAGATCAGATGGAAAAATGAAGTCCGGATTCATTCTGGGTCTTTC
R            3'-TGGTCTTCTAGTCTACCTTTTTACTTCAGGCCTAAGTAAGACCCAGAAAG
M            5'-ACCAGAAGATCAGATGGAAAAATGAAGTCCAGATTCATTCTGGGTCTTTC
A                                 CTTTTTACTTCAGGC-5'      Cy5-wt-ter
B                                 CTTTTTACTTCAGGT-5'      Cy5-mu-ter
C                                    CTTCAGGCCTAAGTA-5'   Cy5-wt-cen
D                                    CTTCAGGTCTAAGTA-5'   Cy5-mu-cen
E       GATTGTGATTCTTGT-5'                                Cy3-mu-ter2
F       GATTGTGATTCTTGG-5'                                Cy3-wt-ter2
G                                 CTTTTTACTTCAGGC-5'      Cy3-wt-ter
H                                 CTTTTTACTTCAGGT-5'      Cy3-mu-ter
I                                 CTTTTTACTTCAGGC-5'      Rho-wt-ter
J                                 CTTTTTACTTCAGGT-5'      Rho-mu-ter
K                                    CTTCAGGCCTAAGTA-5'   Rho-wt-cen
L                                    CTTCAGGTCTAAGTA-5'   Rho-mu-cen

Y Two string target
```

Fig. 5 5/22

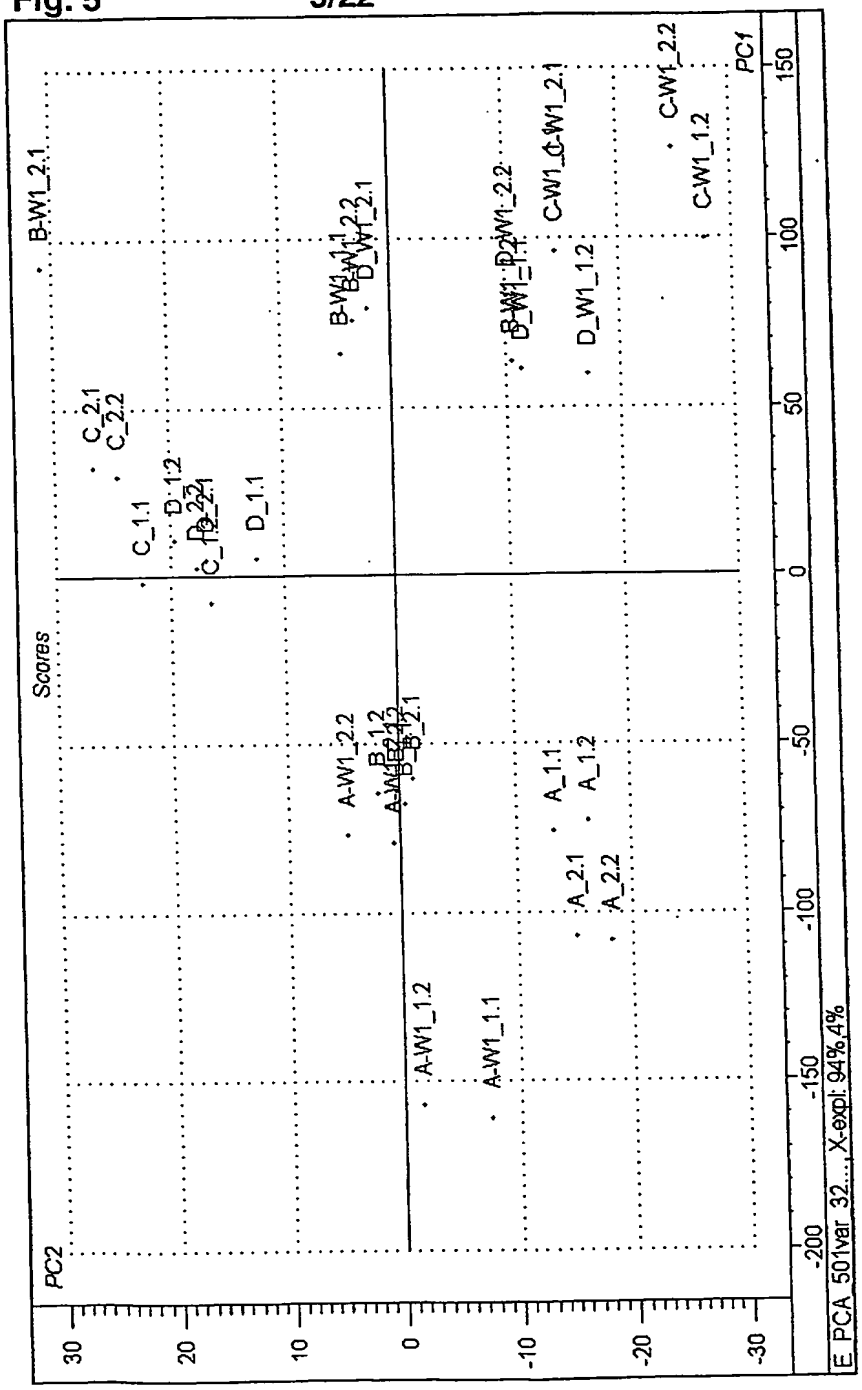

Scores
PC2
PC1
30
20
10
0
-10
-20
-30
150
100
50
0
-50
-100
-150
-200
E PCA 501var 32..., X-expl: 94% 4%
B-W1_2.1
C_2.1
C_2.2
C_1.1
D_1.2
D_2.1
D_1.1
B-W1_1.1
B-W1_2.2
D_W1_2.1
B-W1_1.2
D_W1_2.2
C-W1_2.1
D_W1_1.2
C-W1_2.2
C-W1_1.2
A-W1_2.2
A_1.1
A_1.2
A_2.1
A_2.2
A-W1_1.2
A-W1_1.1

Fig. 6 6/22

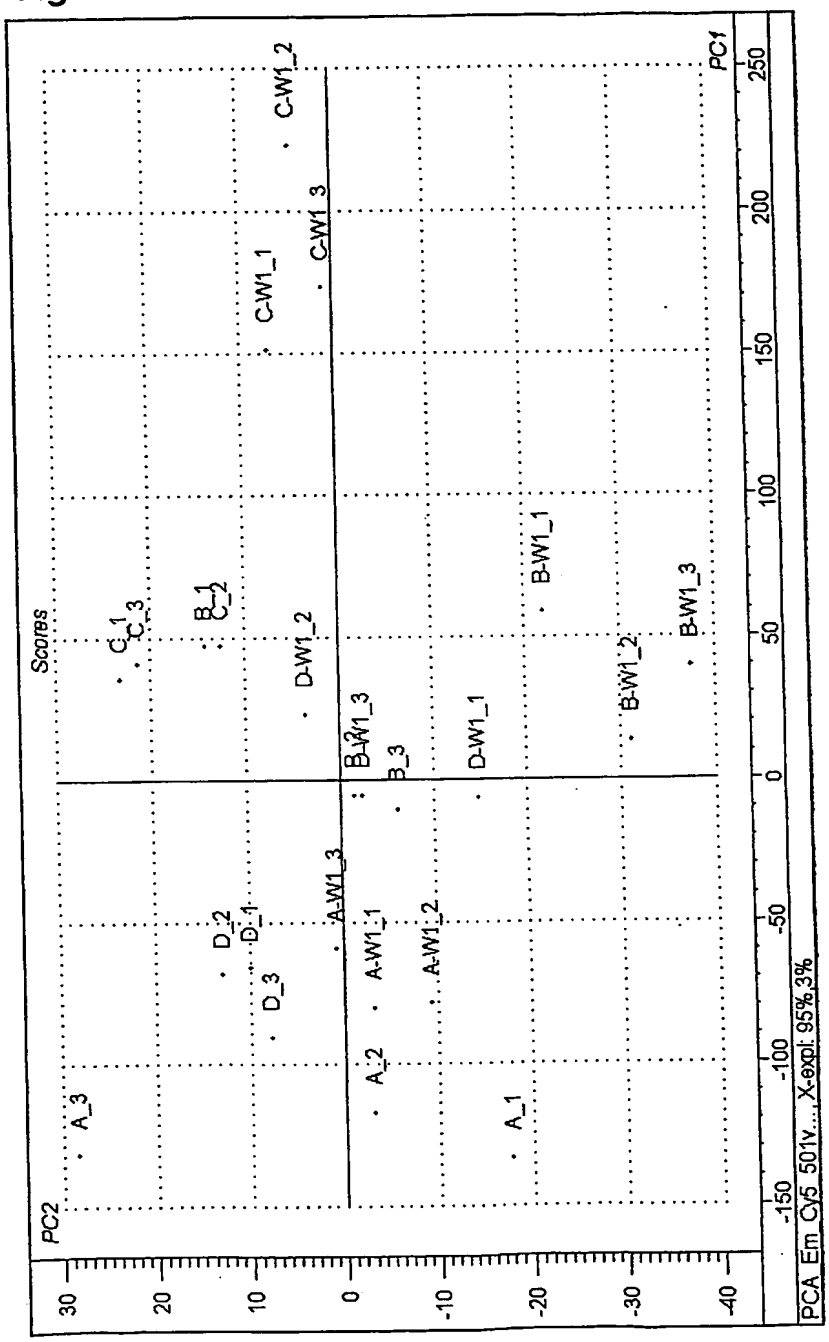

Scores
PC2
PC1
A_3
A_2
A_1
D_2
D_1
D_3
A-W1_3
A-W1_1
A-W1_2
C_1
C_3
B_1
C_2
D-W1_2
B-W1_3
B_3
D-W1_1
C-W1_2
C-W1_3
C-W1_1
B-W1_1
B-W1_2
B-W1_3
30
20
10
0
-10
-20
-30
-40
250
200
150
100
50
0
-50
-100
-150
PCA Em Cy5 501v..., X-expl: 95%,3%

Fig. 7

7/22

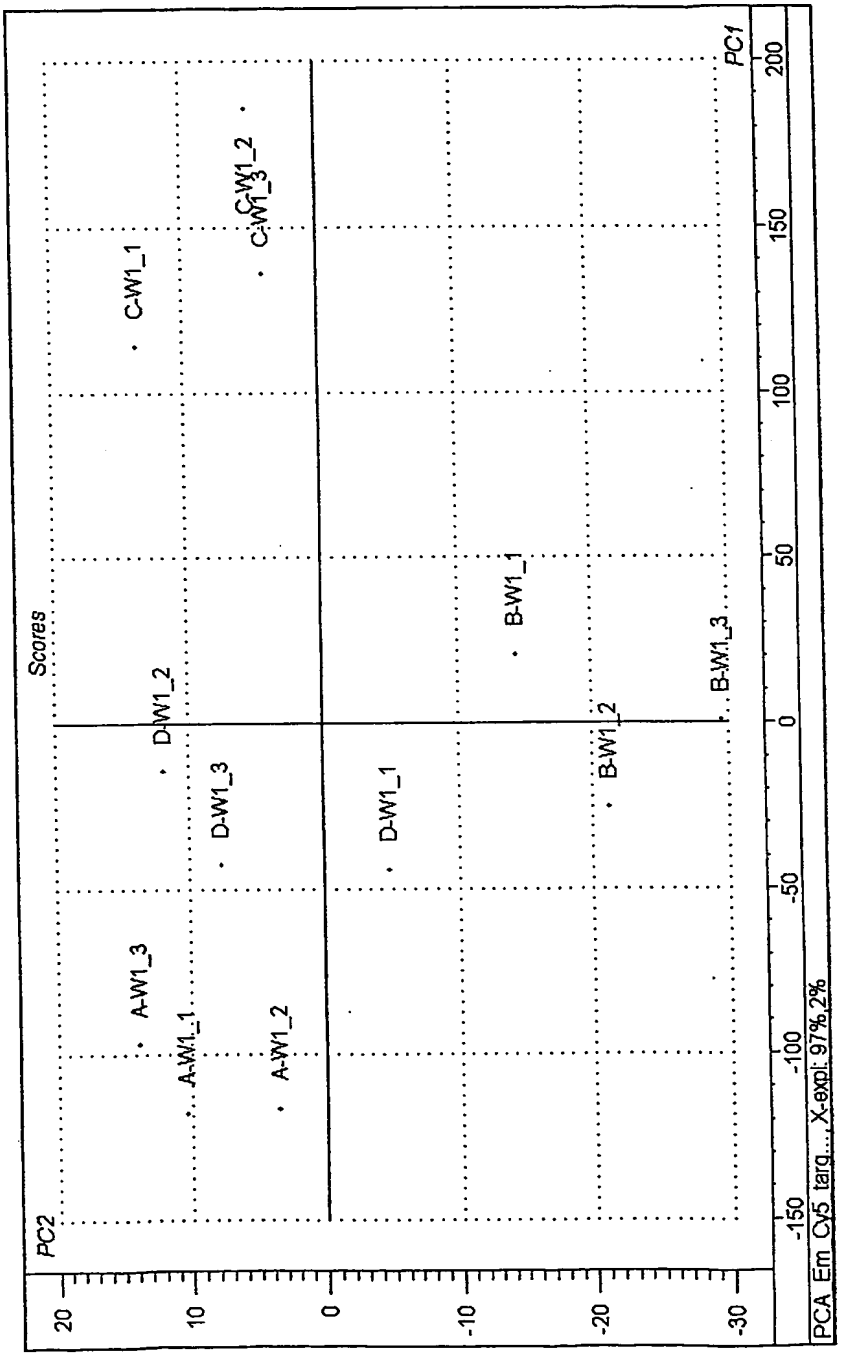

Scores
PC1
PC2
A-W1_1
A-W1_2
A-W1_3
B-W1_1
B-W1_2
B-W1_3
C-W1_1
C-W1_2
C-W1_3
D-W1_1
D-W1_2
D-W1_3
200
150
100
50
0
-50
-100
-150
20
10
0
-10
-20
-30
PCA Em_Cy5 targ..., X-expl: 97%,2%

Fig. 8 8/22

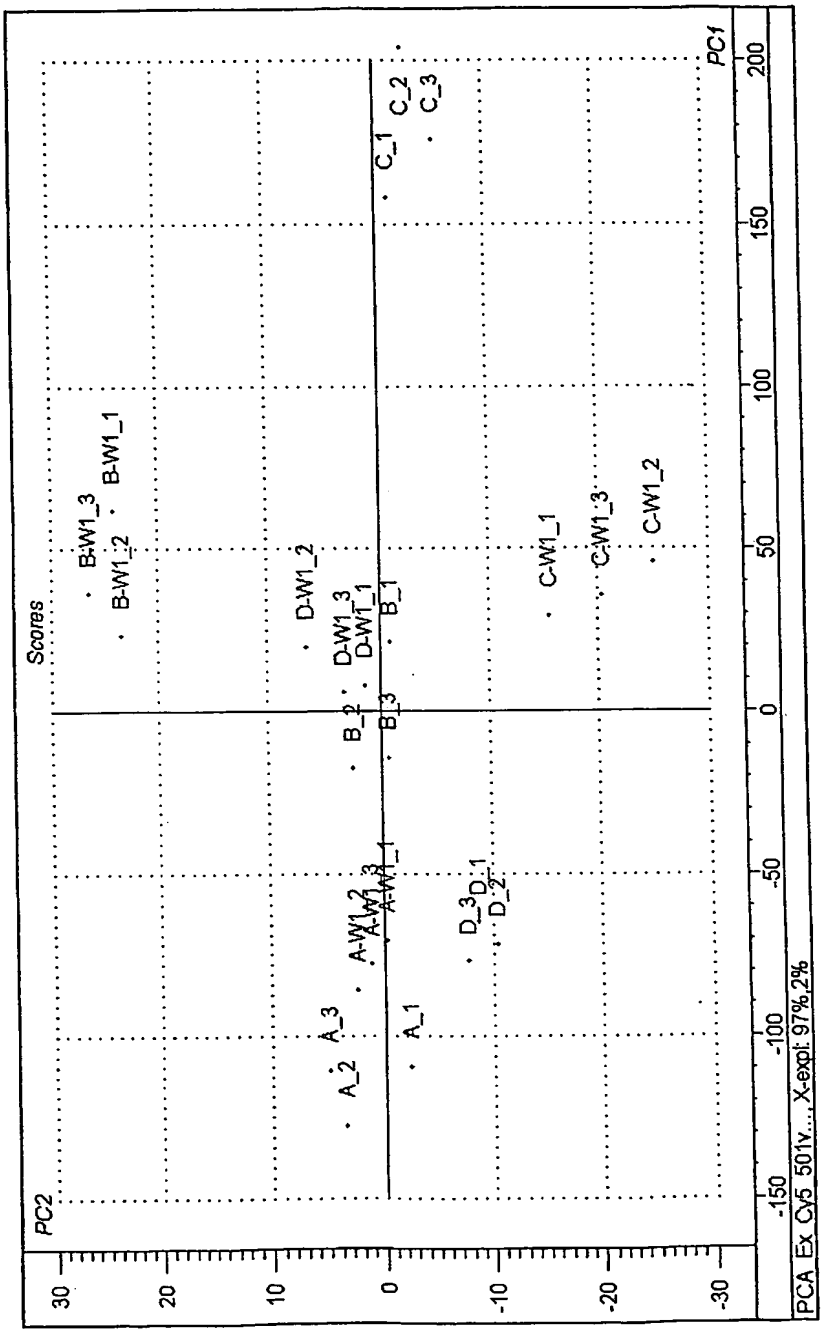

Scores
PC1
PC2
PCA Ex Cv5 501v... X-expl: 97% 2%
A_1
A_2
A_3
A-W1_1
A-W1_2
A-W1_3
B_1
B_2
B_3
B-W1_1
B-W1_2
B-W1_3
C_1
C_2
C_3
C-W1_1
C-W1_2
C-W1_3
D_1
D_2
D_3
D-W1_1
D-W1_2
D-W1_3

Fig. 9 9/22

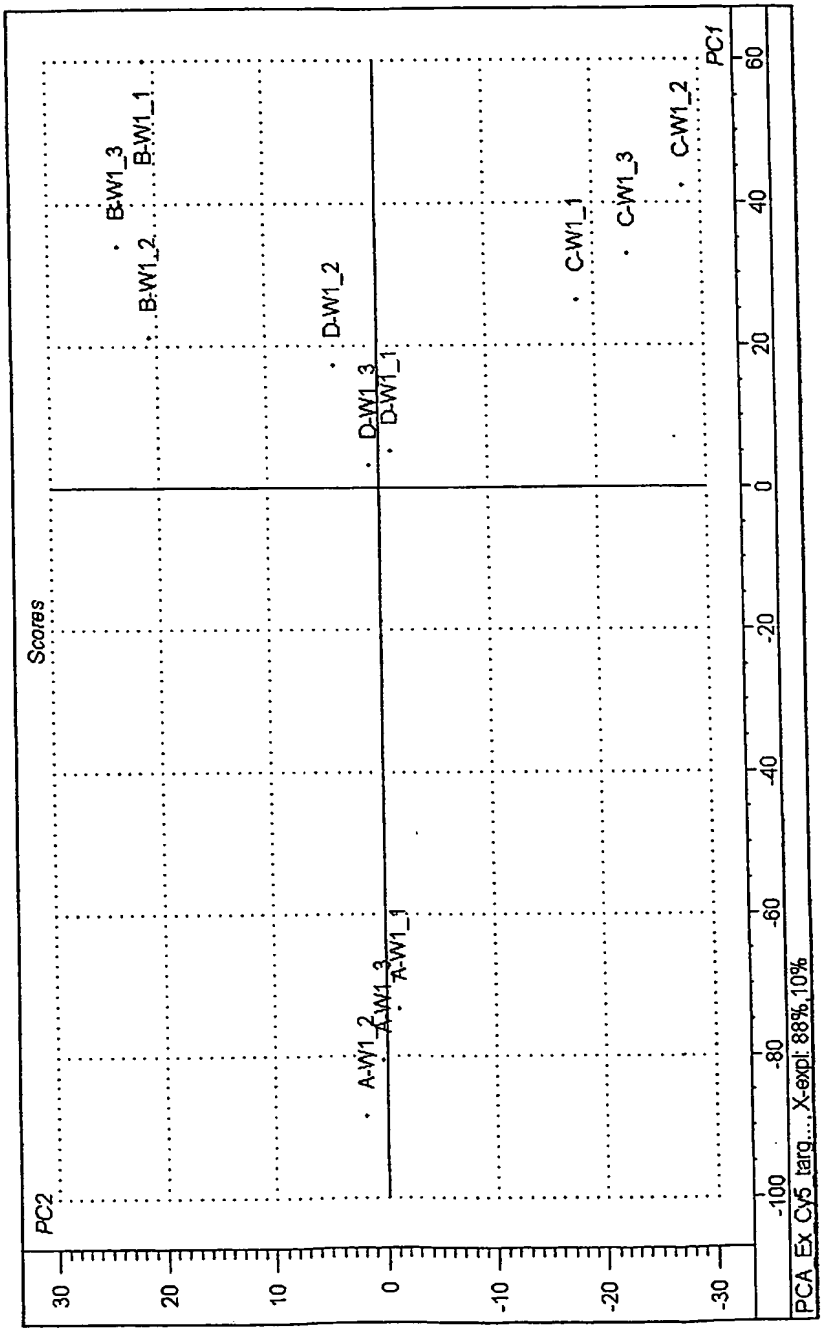

Scores
PC1
PC2
B-W1_3
B-W1_1
B-W1_2
D-W1_2
D-W1_3
D-W1_1
C-W1_1
C-W1_3
C-W1_2
A-W1_2
A-W1_3
A-W1_1
60
40
20
0
-20
-40
-60
-80
-100
30
20
10
0
-10
-20
-30
PCA Ex Cy5 targ... X-expl: 88%,10%

Fig. 10 10/22

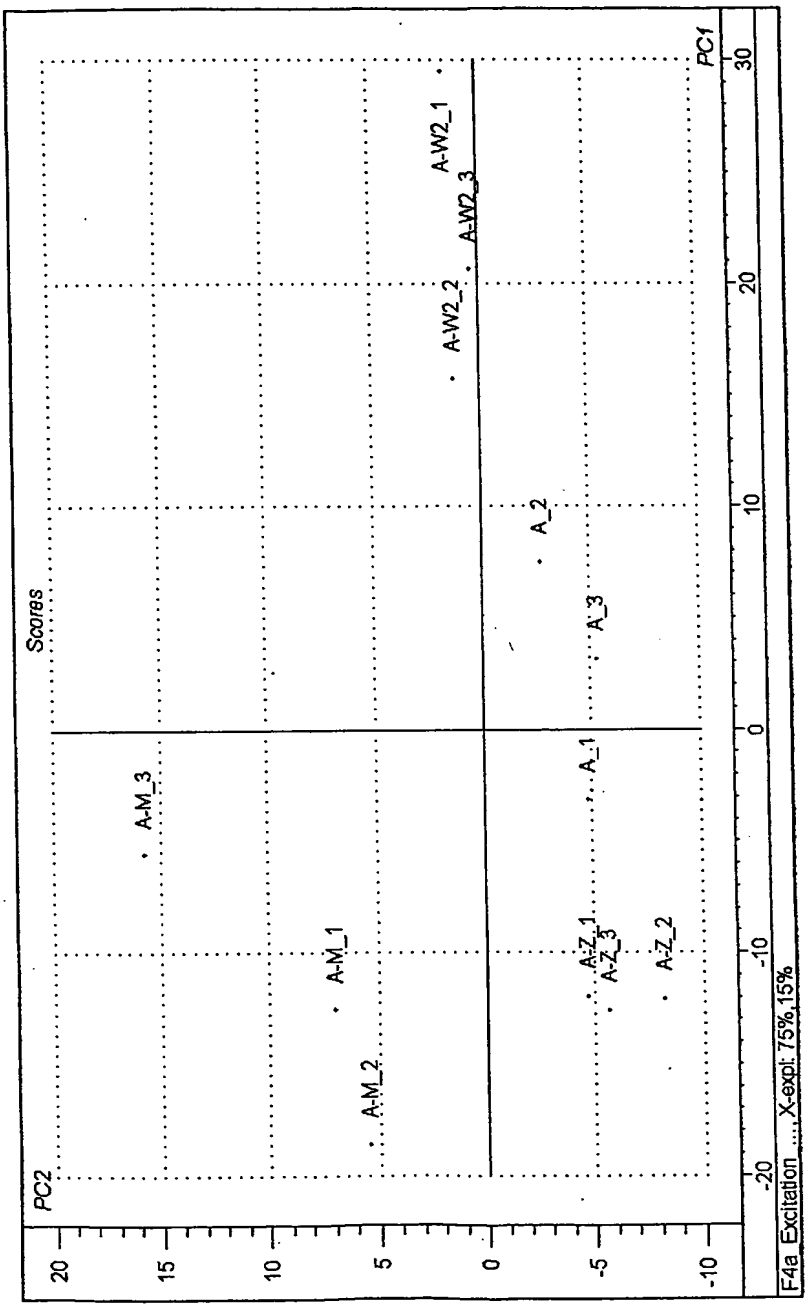

Scores
PC1
PC2
A-W2_1
A-W2_3
A-W2_2
A_2
A_3
A_1
A-M_3
A-M_1
A-M_2
A-Z_1
A-Z_3
A-Z_2
30
20
10
0
-10
-20
20
15
10
5
0
-5
-10
F4a Excitation ...., X-expl: 75%,15%

Fig. 11 11/22

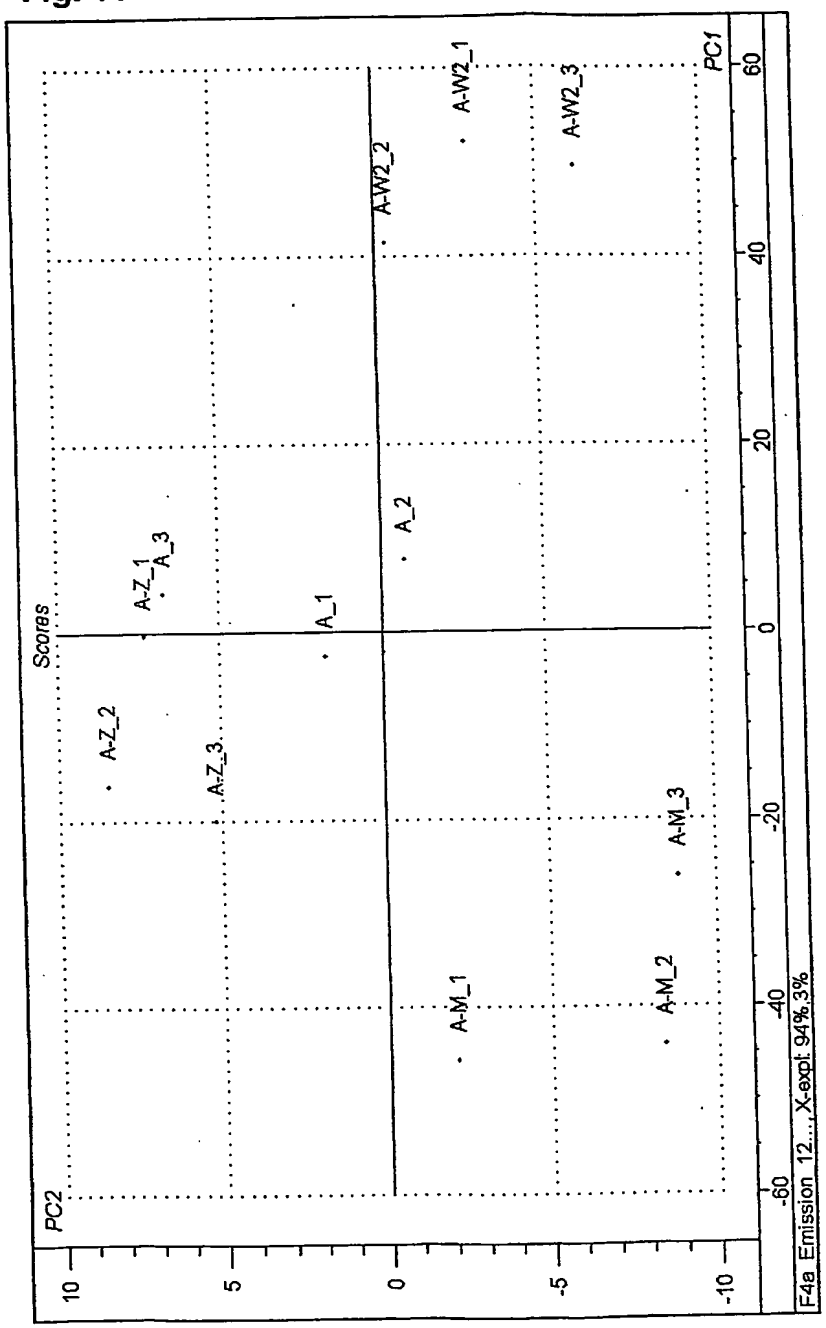

Scores
PC1
PC2
A-W2_1
A-W2_3
A-W2_2
A_2
A-Z_1
A_3
A_1
A-Z_2
A-Z_3
A-M_3
A-M_1
A-M_2
60
40
20
0
-20
-40
-60
10
5
0
-5
-10
F4a Emission 12..., X-expl: 94%,3%

Fig. 12 12/22

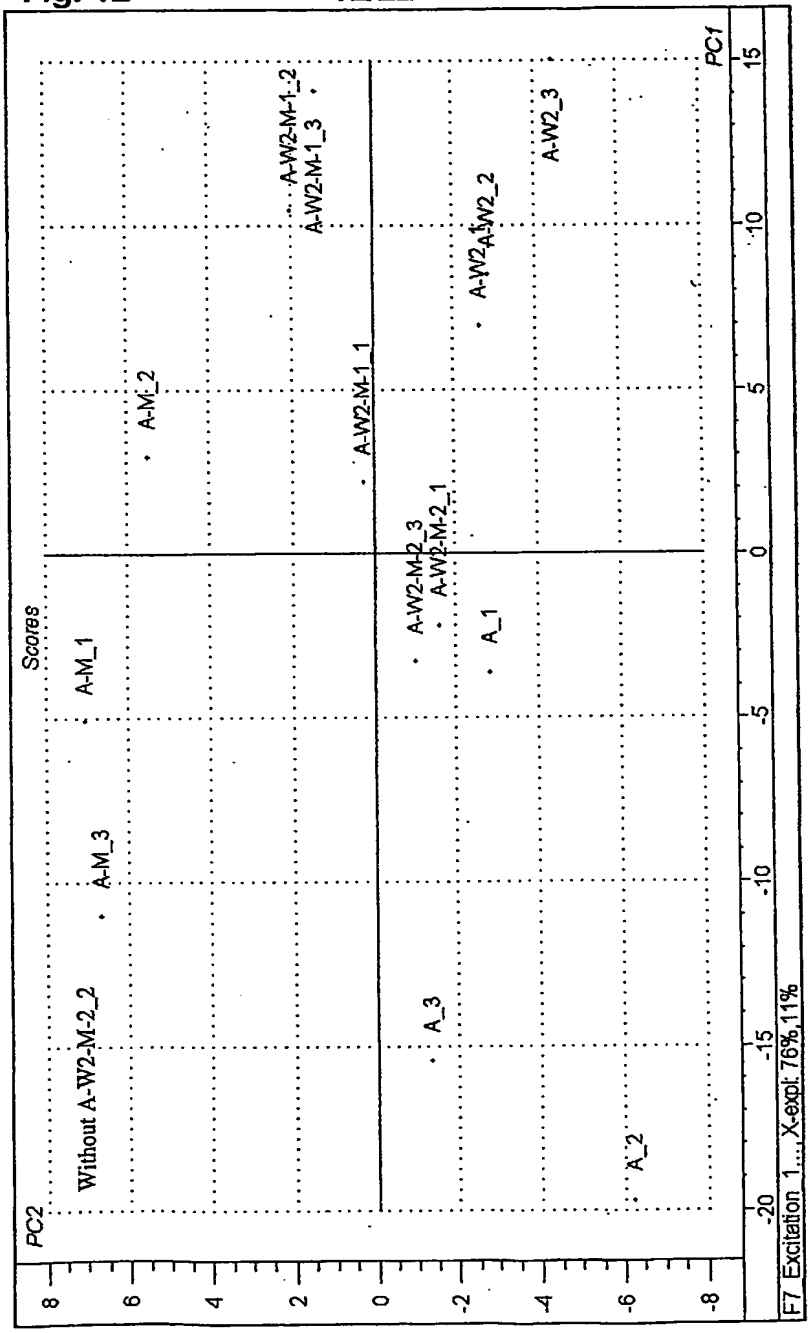

Scores
PC2
PC1
Without A-W2-M-2_2
A-M_1
A-M_3
A-M_2
A-W2-M-1_2
A-W2-M-1_3
A-W2-M-1_1
A-W2-M-2_3
A-W2-M-2_1
A_1
A_3
A_2
A-W2_1
A-W2_2
A-W2_3
8
6
4
2
0
-2
-4
-6
-8
15
10
5
0
-5
-10
-15
-20
F7 Excitation 1..., X-expl: 76%,11%

Fig. 13 13/22

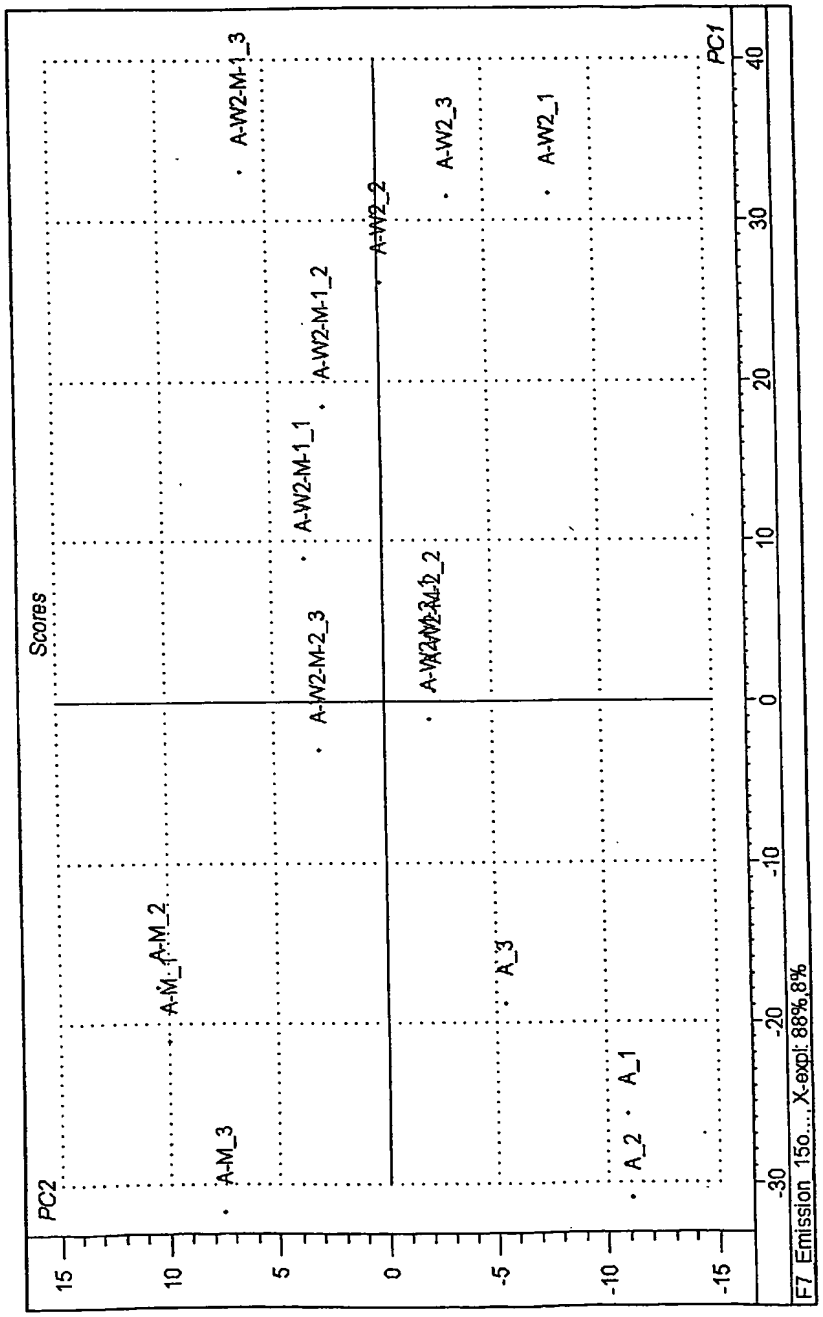

Scores
PC2
PC1
A-M_1
A-M_2
A-M_3
A-W2-M-1_3
A-W2-M-1_1
A-W2-M-1_2
A-W2-M-2_3
A-W2_2
A-W2_3
A-W2_1
A_3
A_2
A_1
F7 Emission 15o... X-expl: 88%,8%

Fig. 14 14/22

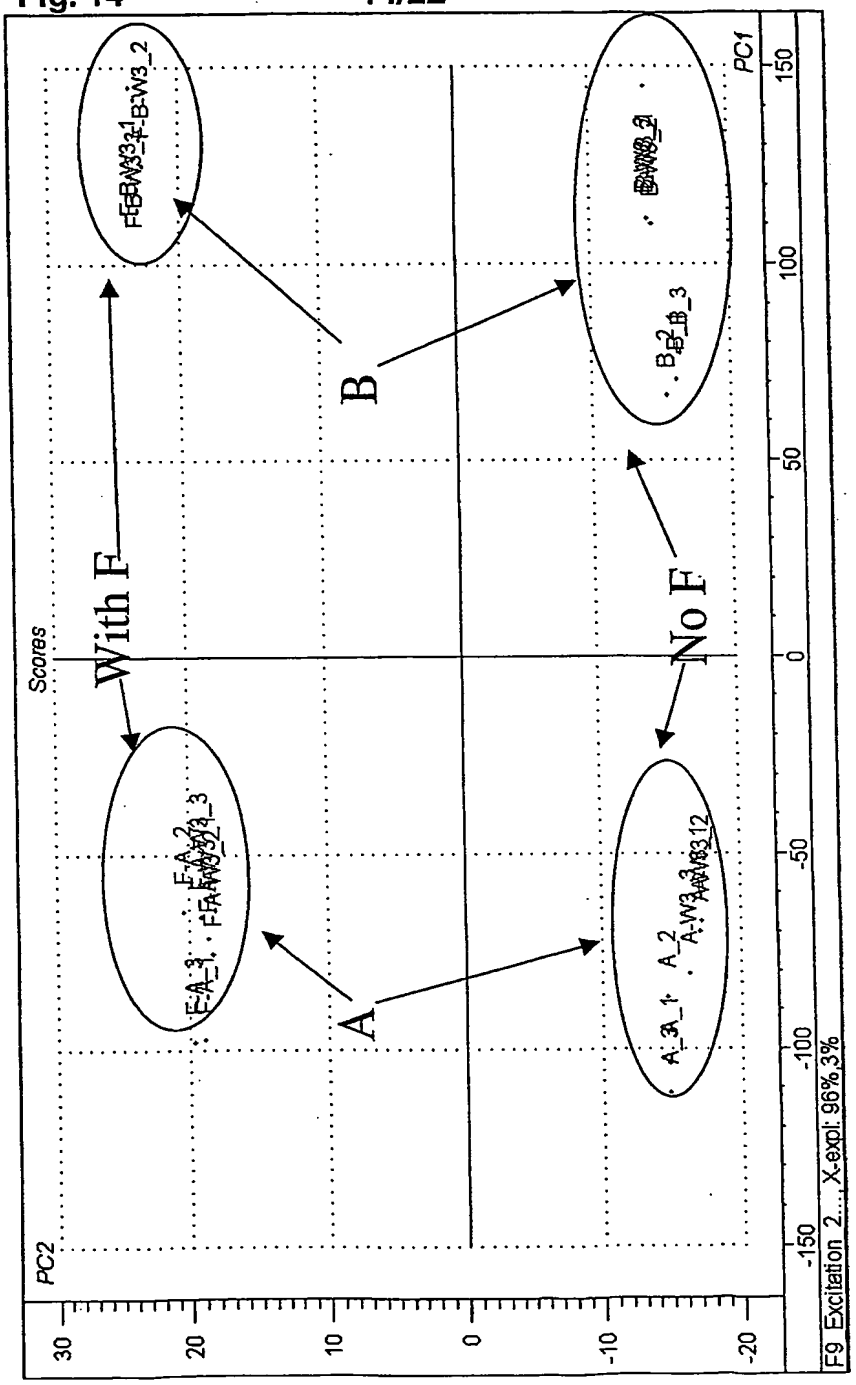

Scores
PC1
PC2
With F
No F
B
A
150
100
50
0
-50
-100
-150
30
20
10
0
-10
-20
F9 Excitation 2..., X-expl: 96%,3%

Fig. 15 15/22

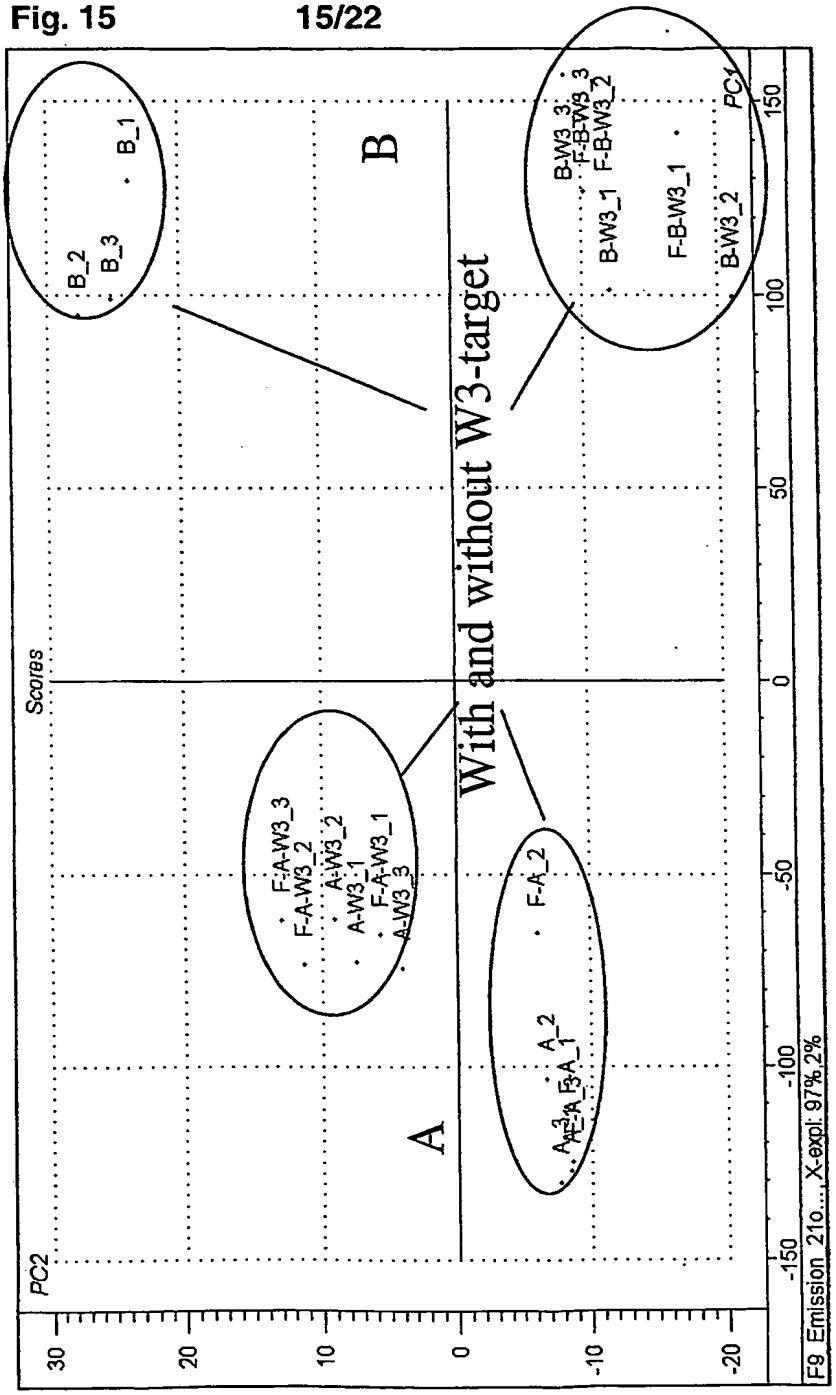

Scores
PC2
PC1
B
A
With and without W3-target
B_1
B_2
B_3
B-W3_3
F-B-W3_3
F-B-W3_2
B-W3_1
F-B-W3_1
B-W3_2
F-A-W3_3
F-A-W3_2
A-W3_2
A-W3_1
F-A-W3_1
A-W3_3
F-A_2
A_2
A_1
A_3
F-A_1
F9 Emission 210..., X-expl: 97%,2%

Fig. 16

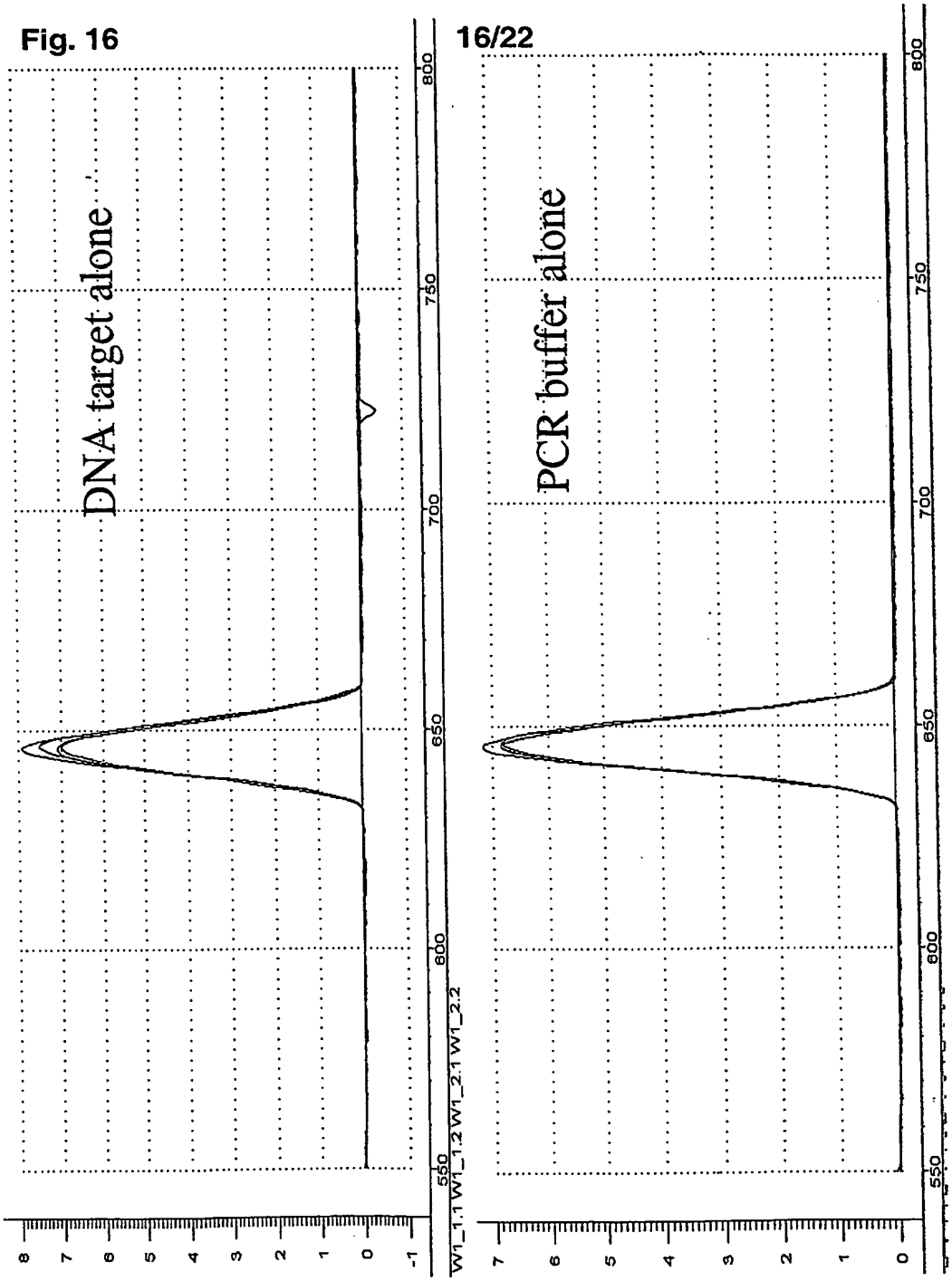


Fig. 17a

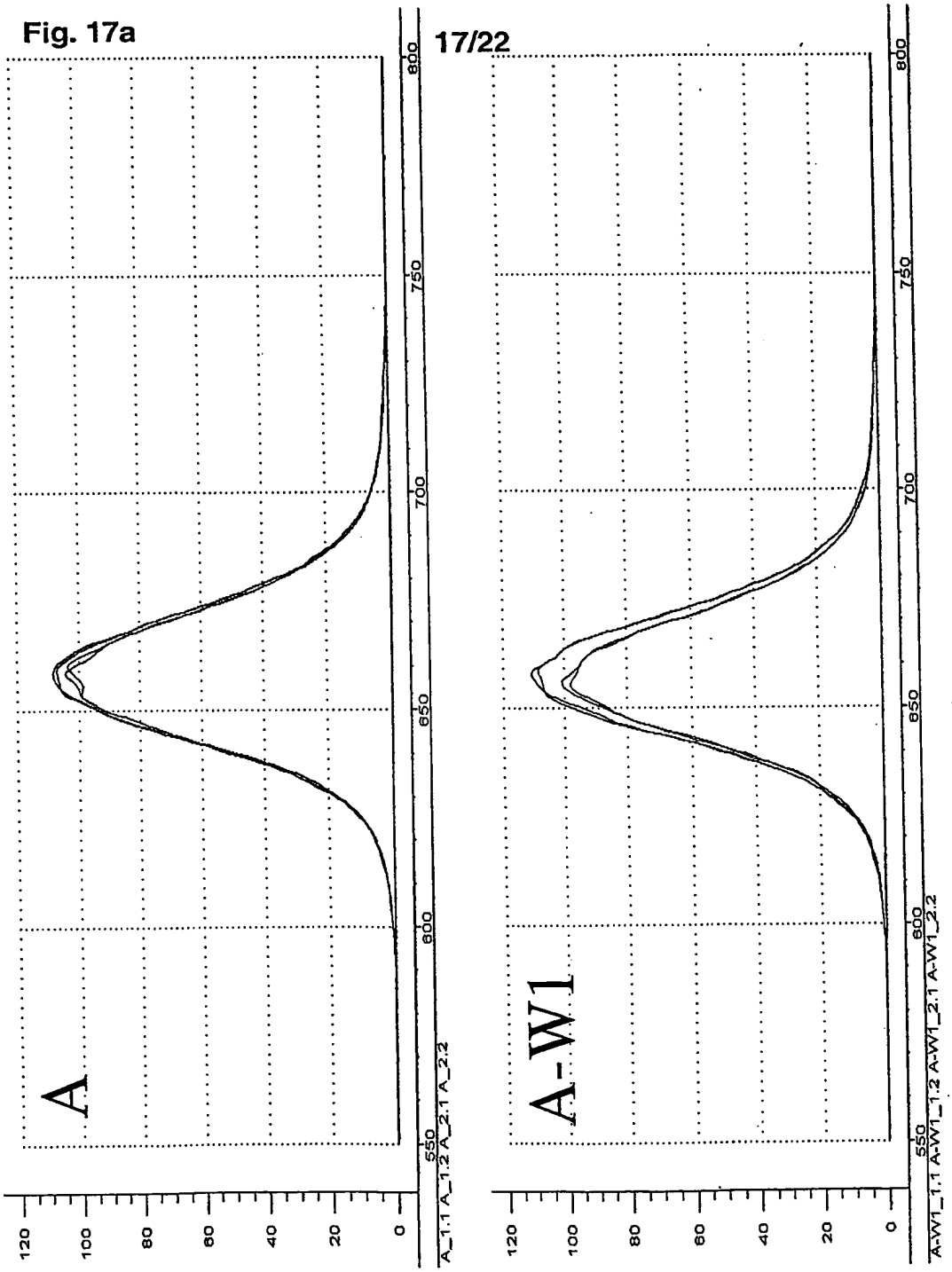

A
A-W1
120
100
80
60
40
20
0
550
600
650
700
750
800
A_1.1 A_1.2 A_2.1 A_2.2
A-W1_1.1 A-W1_1.2 A-W1_2.1 A-W1_2.2

Fig. 17b

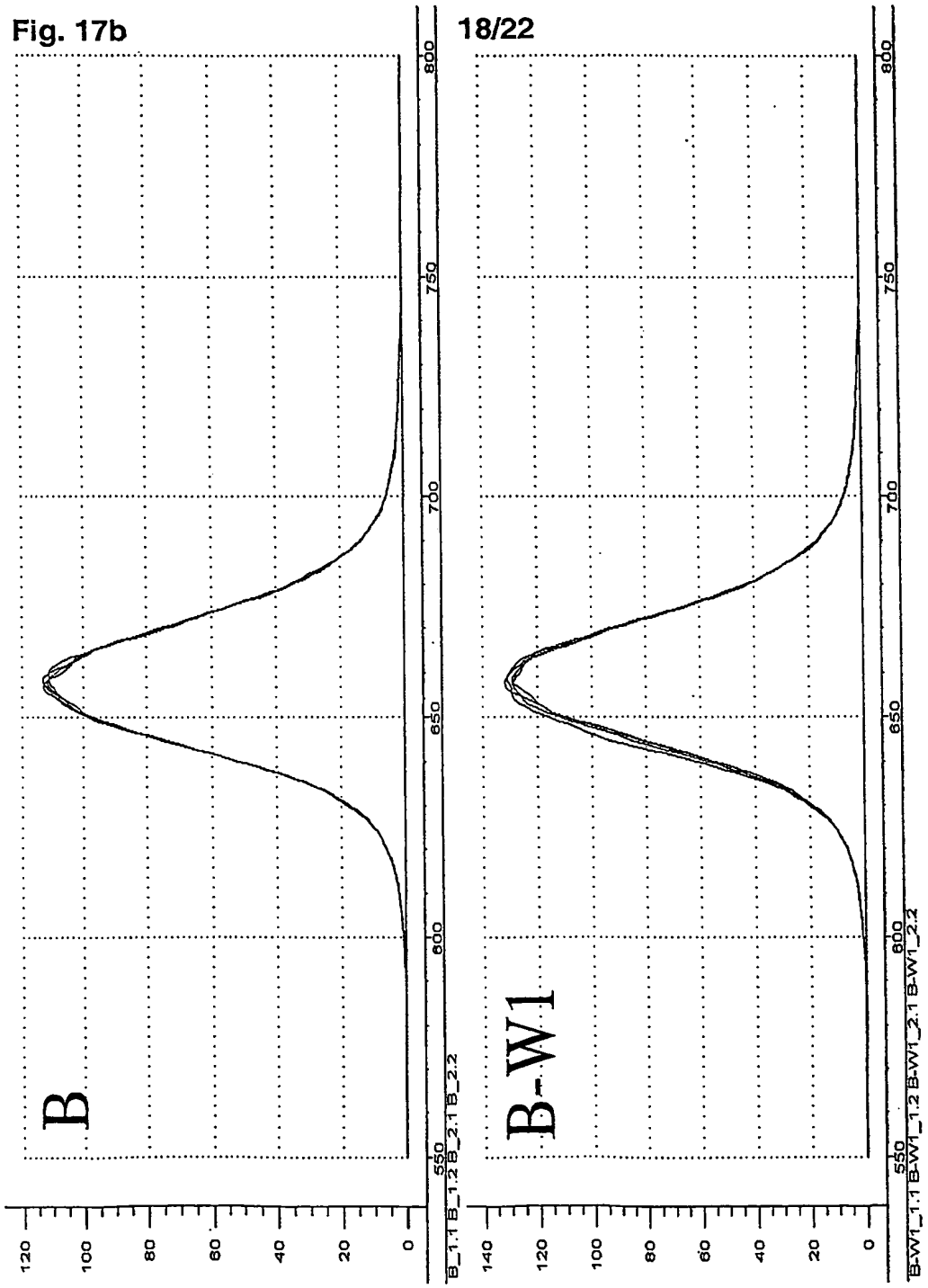

B
B-W1
120
100
80
60
40
20
0
140
550
600
650
700
750
800
B_1.1 B_1.2 B_2.1 B_2.2
B-W1_1.1 B-W1_1.2 B-W1_2.1 B-W1_2.2

Fig. 18a

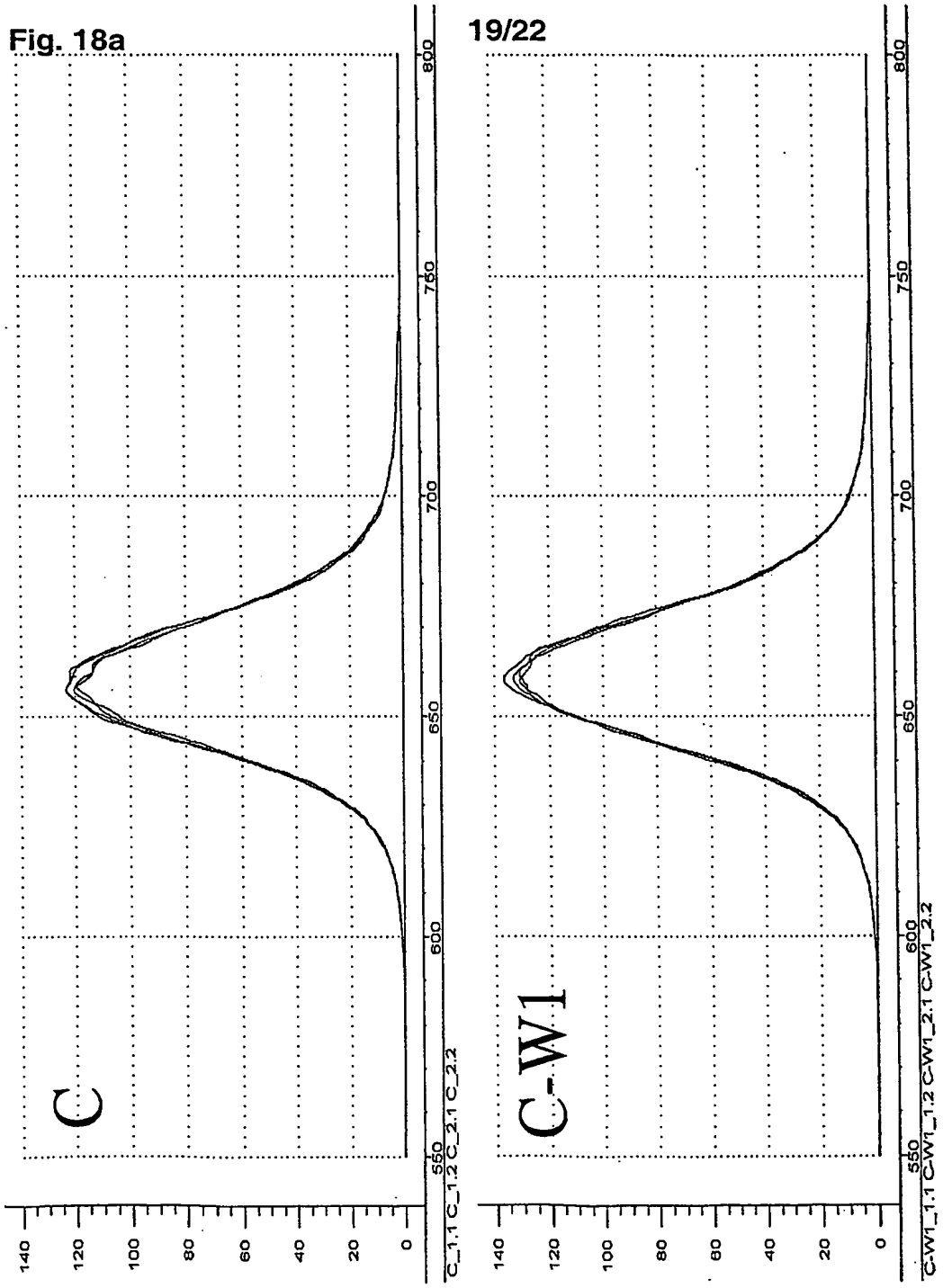

C
C-W1
140
120
100
80
60
40
20
0
550
600
650
700
750
800
C_1.1 C_1.2 C_2.1 C_2.2
C-W1_1.1 C-W1_1.2 C-W1_2.1 C-W1_2.2

Fig. 18b

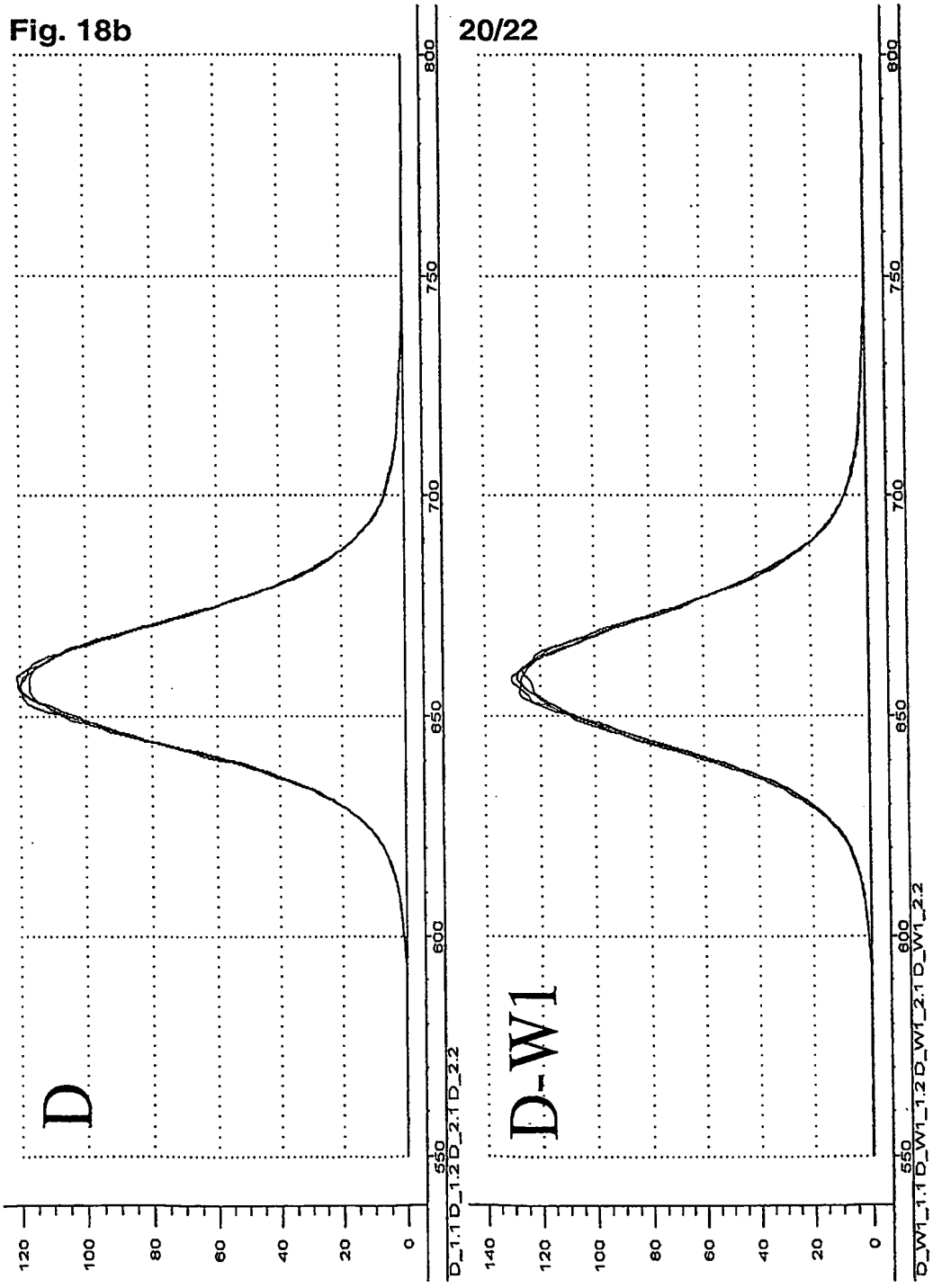

D
D-W1
120
100
80
60
40
20
0
140
550
600
650
700
750
800
D_1.1 D_1.2 D_2.1 D_2.2
D_W1_1.1 D_W1_1.2 D_W1_2.1 D_W1_2.2

Fig. 19

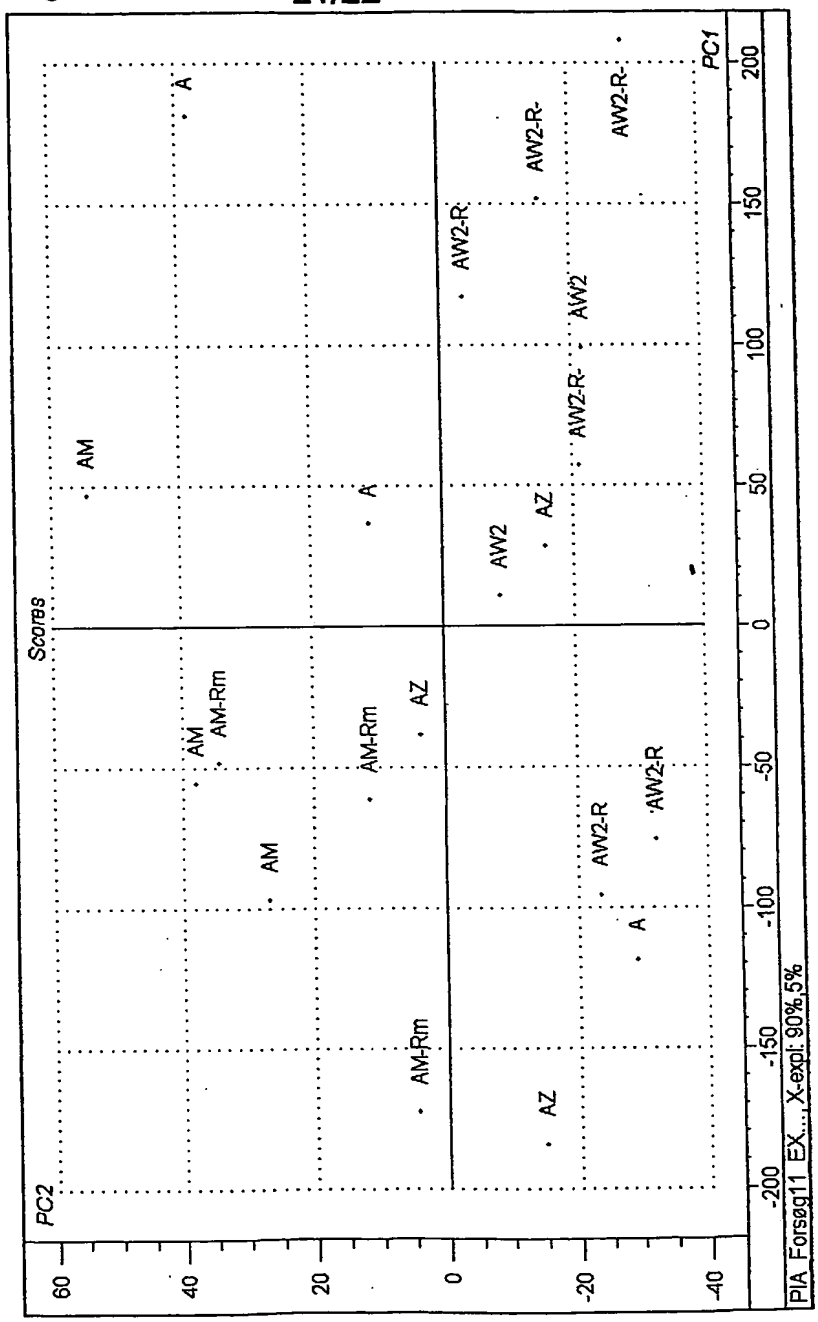
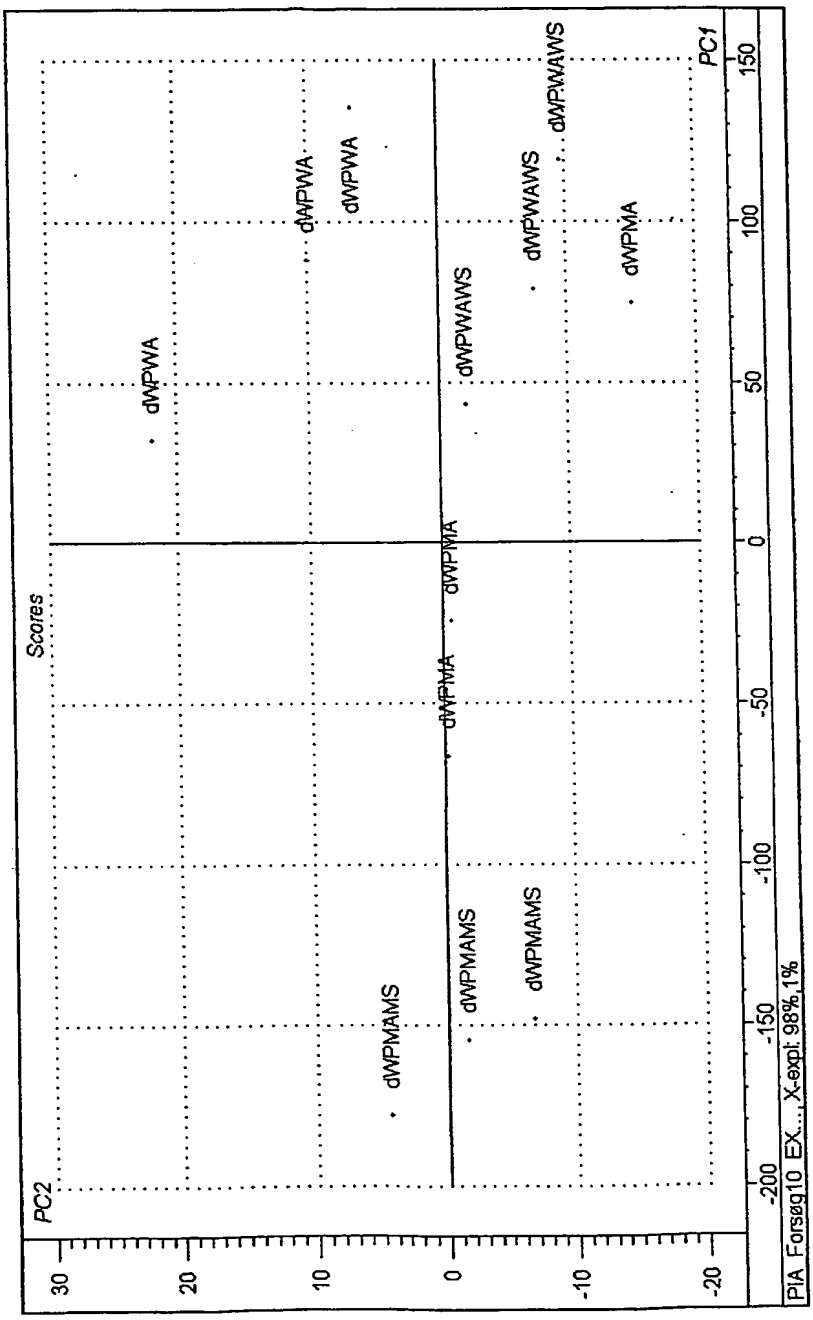

Scores
PC1
PC2
PIA Forsøg11 EX..., X-expl: 90%,5%
AM
AM-Rm
A
AZ
AW2
AW2-R
AW2-R-
60
40
20
0
-20
-40
200
150
100
50
0
-50
-100
-150
-200

Fig. 20 22/22


Scores
PC1
PC2
dWPWA
dWPWA
dWPWA
dWPWAWS
dWPWAWS
dWPWAWS
dWPMA
dWPMA
dWPMA
dWPMAMS
dWPMAMS
dWPMAMS
150
100
50
0
-50
-100
-150
-200
30
20
10
0
-10
-20
PIA Forsøg10 EX..., X-expl: 98%,1%